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## New Species of the Subfamily PSENIINÆ.

BY HENRY L. VIERECK.

In Can. Ent., xxxi, 223 224, Mr. W. H. Ashmead has tabulated four genera belonging to this subfamily.

According to the recognized rules of Zoological Nomenclature, *Sphex atra* Fabr. is the legitimate type of the genus *Psen* being first designated as such by Latreille himself.

From this point of view it is necessary to revise the names of two and give a new name to one of the divisions in the table referred to.

The following table is intended to show the genuine types of the four groups, and is as will be seen (excepting names, synonymy and types) a copy of Mr. W. H. Ashmead's table of the Pseninæ referred to above:

Cubitus in hind wings originating *beyond* the transverse median nervure, the latter short and straight, perpendicular .....2.

Cubitus in hind wings originating *before* the transverse median nervure, the latter long and oblique or slightly bent, but *not* perpendicular.

Second cubital cell receiving both recurrent nervures, *rarely* with the first recurrent nervure interstitial with the first transverse cubitus, or the second recurrent interstitial with the second transverse cubitus; inner spur of hind tibiæ dilated; metathorax with a median sulcus, the area at base striate or alveolate; petiole of abdomen long, usually furrowed laterally; clypeus convex or subconvex, separated, anteriorly more or less rounded, and with a slight vein, but without a median sinus; labrum hidden.....**Mimesa** Schuckard.

= *Aporia* Wesm.

[Type *Impozylon equestrie* Fabr.]

Second and third cubital cells each receiving a recurrent nervure, or the first recurrent nervure is interstitial with the first transverse cubitus; head with a spine between the antennæ; clypeus anteriorly rimmed with a median sinus.....**Psen** Latreille.

= *Dahlbomia* Wissm.

= *Mesopora* Wesm.

[Type *Sphex atra* Fabr.]

2. Submedian cell in front wings a little shorter than the median, the transverse median nervure being not quite interstitial with the basal nervure; second cubital cell usually much narrower above.

Second and third cubital cells each receiving a recurrent nervure, rarely with the first recurrent nervure interstitial with the first transverse cubitus.....**Neofoxia** Vier. n. n.\*

*Psen* Ashm. not Latr.

[Type *Psen atrata* Pz.]

Second cubital cell receiving both recurrent nervures....**Psenulus** Kohl.

[Type *Psen fuscipennis* Dahlb.]

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\* Named after Mr. W. J. Fox of the Academy of Natural Sciences, Philadelphia, in recognition of his valuable contributions to American Hymenopterology.

**Mimesa regularis** Fox.

*Psen regularis* Fox, Trans. Am. Ent. Soc., xxv, 6, ♀, 1898.

"Antennæ (flagella missing)." Antennæ reaching to the middle of the thorax, flagellum thickened more than in *M. niger*. First joint of the flagellum about one-third longer than the second. Two ♀ North Mountain, Sullivan County, Pa. (C. W. Johnson.)

**Mimesa striatus** n. sp.

Dorsulum longitudinally striate, enclosure of metathorax smooth, petiole slender and narrow. ♀. Length 8 mm.

Head shining, front with fine somewhat separated punctures, closest near base of antennæ, vertex with very fine transverse striæ. Space between posterior ocelli seemingly less than space between ocelli and nearest eye margin. Front with a well-defined median carina extending from middle of space between insertion of the antennæ to anterior ocellus. Face and clypeus with dense silvery pubescence, as in *Cylindricus*, on the cheeks less dense, silvery, the rest of the head with sparse very short hairs. Antennæ slender at base, gradually thickened to the apex, first joint of the flagellum almost as long as the second and third united. Dorsulum with close, fine, longitudinal striæ. Mesopleuræ minutely striate, sericeous. Scutellum glossy, sparsely punctured, postscutellum with a tuft of white pubescence laterally. Enclosure of metathorax with a somewhat diamond shaped, shining area, the upper boundaries of which are formed by well-marked ridges, followed on each side by at least two other ridges, the spaces between also smooth, the rest of the metathorax dull, reticulated, posterior face with sparse, slender hairs, a tuft of pubescence at base laterally. Wings hyaline, nervures brownish, first and second transverse cubitus almost uniting on the marginal nervure, second cubital cell receiving the first recurrent nervure a little less than one-third its length from the first transverse cubitus, the second recurrent nervure almost interstitial with the second transverse cubitus. Femora and tibiæ sericeous, posterior tibiæ with short stiff hairs behind. Tarsi with yellowish pubescence. Petiole distinctly trisulcate, longer than the posterior femora, slender, of almost equal width throughout. Abdomen smooth, polished, with exception of first segment thinly sericeous. Pygidial area narrower apically than in *cylindricus*, with strong punctures laterally, impunctate medially, not polished and with long sparse hairs.

Black. Antennæ seal-brown. Tibial spurs whitish, tarsi changing from whitish at base to brownish testaceous at apex.

Related to *regularis* and *cylindricus*, to the former by its smooth metathoracic enclosure, to the latter by its slender, narrow petiole. Readily distinguished by the striate dorsulum.

Type in collection H. L. Viereck. Type locality, Westville, N. J., August 30, 1899 (H. L. Viereck). A specimen from Avalon, N. J., June 9 (C. W. Johnson) is referred with doubt to this species.

Since the above was written a specimen of this species has been found in collection Am. Ent. Soc., labelled Fla. ♀.

**Mimesa niger** Pack.

*Psen niger* Pack., Proc. Ent. Soc. Phil., vi, 399, ♀ (excl. ♂), 1867.

One ♂, Lehigh Gap, Lehigh County, Pa., July 12, 1900 (H. L. Viereck).

**Mimesa longicornis** Fox.

*Psen longicornis* Fox, Trans. Am. Ent. Soc., xxv, 6, ♂, 1898.

One ♂, Westville, N. J., August 30, 1899 (H. L. Viereck).

**Mimesa johnsoni** n. sp.

Joints of flagellum ♂ not bulged outward, dorsulum punctate to striato-punctate, metathorax with a smooth area, otherwise coarsely reticulated.

♀.—Length 8.5 mm. Head polished with moderately strong evenly spaced punctures, closer in front of ocelli than behind, a raised line extending from a prominence between the antennæ at base to the anterior ocellus, well defined on its lower half less so above. Posterior ocelli in pits, space between posterior pair plainly less than that between them and nearest eye margin. Face and clypeus thickly covered with golden pubescence, on cheeks sparse, concolorous with that on face, rest of the head with sparse golden hairs. Antennæ with the first joint of the flagellum slender, not as long as joints two and three united, flagellum becoming gradually thickened to decidedly at middle and beyond.

Dorsulum coarsely punctured, somewhat confluent, a longitudinal impressed line on each side extending from just in front of the middle to the posterior border of the dorsulum. Mesopleuræ polished, with a few distinct punctures and sparse pale pubescence. Scutellum strongly punctate. Enclosure of metathorax triangular, apex truncated, a hexagonal smooth area with its anterior lateral margins formed by oblique ridges, followed by other oblique ridges to the apexes, space between narrow and smooth, the rest of the metathorax coarsely reticulated. Postscutellum laterally, middle segment at the base laterally, with a patch of long yellowish hairs. Wings hyaline, faintly fuscous, the marginal cell darkest, nervures dark brown, testaceous at base of wing. First and second transverse cubital nervures well separated on the radial nervure, first recurrent nervure received by the second cubital cell about one-fourth its length beyond the first transverse cubitus, second recurrent nervure received about one-fifth of its length before the second transverse cubitus. Femora and tibiæ sericeous, tarsi with golden pubescence. Petiole longer than posterior femor, broadened, wider at apex than at base, distinctly trisulcate, median sulcus smooth, with slender erect pale hairs. Abdomen smooth and shining, apical half of segments two, three, four sericeous, fifth segment and pygidium with sparse golden hairs. Length of pygidial area more than twice the width. Smooth and polished medially, laterally with a row of deep punctures. Black, tibiæ ferruginous, with a dark spot dorsally, tarsi and spurs honey-yellow. Antennæ seal-brown, underside of joints one and two of the flagellum ferruginous.

♂.—Length 8.5 mm. Head punctured a little closer than in ♀. Face and clypeus covered with silvery pubescence, about the same length as in the other sex. Space aside and between the scape with sparse pubescence, tinged with yellow. Space between hind ocelli less than that between them and nearest eye margin. Antennæ as long as head and thorax, slender, of almost equal width throughout, first joint of the flagellum a little less than one-third longer than the second. Pro-

notum furrowed, sericeous, dorsulum striato-punctate. Scutellum sparsely punctate. Tubercles and postscutellum laterally with a tuft of long yellowish pubescence. Metathorax sculptured, coarser than in ♂, smooth area well developed, covered with erect silvery pubescence. Mesopleuræ and underside of femora sericeous. Space between first and second transverse cubitals on radial nervure variable, small, second recurrent nervure almost interstitial with the second transverse cubitus. Petiole distinctly trisulcate, with sparse erect hairs. Abdomen shining, first segment almost base, the rest silvery sericeous. Black. Underside of joints one, two, three and four of the flagellum ferruginous below, above and the rest of the joints entirely seal-brown. Tegulæ and base of the wings testaceous, spurs and tarsi whitish.

Related to *mellipes* Say ♂ (as determined by Mr. Fox), from which it differs in having joints of flagellum simple, coarser in sculpture of metathorax and larger size.

Type in collection H. L. Viereck. Type locality, ♂, Riverton, N. J., June 10 (C. W. Johnson); ♀, Lehigh Gap, Lehigh County, Pa., July 14, 1899 (Viereck). Dedicated to Mr. Chas. W. Johnson.

***Mimesa ferruginea* n. sp.**

Head coarsely punctured, dorsulum confluent punctured, metathorax coarsely reticulated, ferruginous, as is the petiole and greater part of first two abdominal segments.

♂.—Length 12 mm. Head closely and strongly punctate, punctures on vertex coarser and sparser, impressions behind posterior ocelli marked and shining. Clypeus tridentate, its surface covered with rather long silvery tinged with yellow, pubescence, which extends up on the face somewhat above insertion of antennæ, front and vertex, with sparse, long, yellowish pubescence, cheeks silvery sericeous. Antennæ somewhat longer than head and thorax, slightly flattened and dilated beyond the middle, joints four to nine of the antennæ curved outwardly, anteriorly impressed above just within the margin. Prothorax with a transverse channel, angled anteriorly and covered with golden appressed pubescence. Dorsulum coarsely striato punctate, with an impressed line starting at the middle of each side and runs to posterior margin, scutellum strongly punctured. Metathorax reticulate, impressed at base medially, the pits large and shallow, mesopleuræ confluent punctured, covered with short silvery pubescence, tegulæ and postscutellum with long, gold-tinted erect pubescence, to each side of metathoracic impression there is a patch of erect silvery or gold-tinted pubescence. Wings strongly tinged with yellowish brown, first recurrent nervure received by the second submarginal cell just before the middle, the second recurrent nervure received a little less than one-fourth the length of the cell before the second transverse cubitus, tegulæ and base of wings testaceous, stigma a tawny olive, nervures dark. Petiole longer than posterior femor, rounded above, smooth and shining, slightly flattened at base, first abdominal segment smooth and comparatively bare, segments two, three, four sparsely sericeous on apical half, the rest of the segments apparently entirely sericeous.

Color: Joints one, two, three, four and part of five of flagellum dull ferruginous, scape shining ferruginous, the rest of the joints seal-brown. Legs shining,

dark testaceous, calcariae whitish. Tubercles, metathorax, petiole and second abdominal segments (with exception of a piceous border) claret-brown or ferruginous, first segment also mottled with blackish spots.

Differs from *kohlui* (to which it appears to be related) by its larger size, longer antennae, more rounded antennal joints, the coarser punctuation of the head by its coloration.

Type deposited in collection Am. Ent. Soc., by Mr. W. J. Fox. Type locality, Biscayne Bay, Fla. (Mrs. Slosson).

**Mimesa cressonii** Pack.

*Psen cressonii* Fox, Trans. Am. Ent. Soc., xxv, 12, ♀ ♂.

One ♂, Hertford, County, N. C., June 9, 1895 (C. W. Johnson); two ♂, Camden County, N. J., September 22, 1901, on flowers of Aster (Viereck).

**Mimesa maculipes** Fox.

*Psen maculipes* Fox, Trans. Am. Ent. Soc., xxv, ♂.

One ♂, North Woodbury, N. J., June 13, 1901 (Viereck).

LIST OF NORTH AMERICAN SPECIES

**MIMESA** Shuckard.

*M. cylindricus* Fox ♀ ♂.  
*M. niger* Pack. ♀ ♂.  
*M. regularis* Fox ♀.  
*M. striatas* Vier. ♀.  
*M. mixta* Fox ♀ ♂.  
*M. leucops* Say ♀ ♂.  
*M. longicornis* Fox ♂.  
*M. mellipes* Say ♀ ♂.  
*M. johnsoni* Vier. ♀ ♂.  
*M. kohlii* Fox ♀ ♂.  
*M. ferruginea* Vier. ♂.  
*M. punctata* Fox ♀.  
*M. simplicicornis* Fox ♀ ♂.  
*M. fuscipes* Pack. ♀.  
*M. argentifrons* Cress. ♀ ♂.  
*M. cressonii* Pack. ♀ ♂.  
*M. chalcifrons* Pack. ♀.  
*M. borealis* Sm. ♀ ♂.  
*M. pauper* Pack. ♀ ♂.  
*M. cingulata* Pack. ♂.  
*M. uncinata* Cress. ♀ ♂.  
*M. clypeata* Fox ♀ ♂.  
*M. granulosa* Fox ♂.

*M. gregaria* Fox ♂.  
*M. proxima* Cress. ♀.  
*M. basirufa* Pack. ♀ ♂.  
*M. maculipes* Fox ♂.  
*M. mexicana* Cam. ♀.  
*M. pulchra* Cam. ♀.  
*M. striolata* Cam. ♀.  
*M. longiventris* Cam. ♀.  
*M. monticola* Cam. ♀.  
*M. montezuma* Cam. ♀.  
*M. claviventris* Cam. ♀.

**PSEN** Latreille.

*P. monticola* Pack. ♀ ♂.  
*P. annulipes* Cam.

**NEOFOXIA** Vier.

*N. frontalis* Fox ♀.  
*N. trisulcus* Fox ♀.  
*N. tibialis* Cress. ♀ ♂.  
*N. suffusus* Fox ♀.

**PSENULUS** Kohl.

(None.)